

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
21 May 2004 (21.05.2004)

PCT

(10) International Publication Number
WO 2004/042941 A1

(51) International Patent Classification⁷: **H04B 1/16**

(21) International Application Number:
PCT/CA2003/000309

(22) International Filing Date: 6 March 2003 (06.03.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/423,372 4 November 2002 (04.11.2002) US

(71) Applicant (for all designated States except US): RE-
SEARCH IN MOTION LIMITED [CA/CA]; 295 Phillip
Street, Waterloo, Ontario N2L 3W8 (CA).

(72) Inventors; and

(75) Inventors/Applicants (for US only): HOSSAIN, Asif

[BD/CA]; 163 Flamborough Way, Kanata, Ontario K2K
3H9 (CA). ISLAM, Khaledul, M. [CA/CA]; 27 Wind-
hurst Dr., Nepean, Ontario K2G 6G5 (CA).

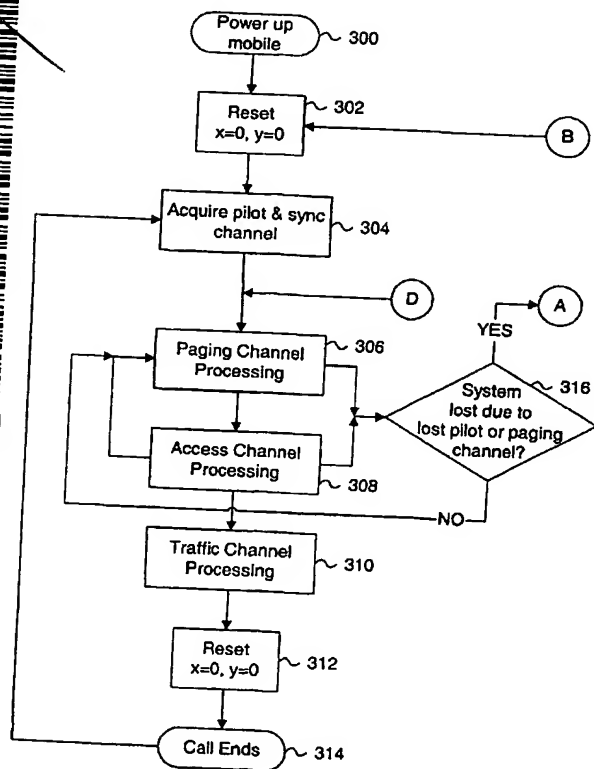
(74) Agents: PATHIYAL, Krishna, K. et al.; Research In Mo-
tion Limited, 295 Phillip Street, Waterloo, Ontario N2L
3W8 (CA).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE,
SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,
VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,

[Continued on next page]

(54) Title: WIRELESS DEVICE BATTERY CONSERVATION METHOD AND SYSTEM



(57) Abstract: Generally, the present invention provides a method for detecting poor RF conditions, and entering different sleep mode levels or phases in accordance with the RF conditions to save battery power. Mobile device battery life can be conserved when the mobile device detects poor RF conditions and enters a deep sleep mode of operation. In this deep sleep mode of operation the mobile device periodically samples the RF conditions and gradually increases the period between samples when the RF conditions do not improve. Because mobility can change the RF condition for wireless devices even in areas of good RF coverage, the mobile device operating in the deep sleep mode can detect this mobility and thus enhance the probability of entering an idle state, or alternatively, entering a longer power save mode. When the RF condition improves, the mobile device exits from the deep sleep mode and returns to the idle state.

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ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

- of inventorship (Rule 4.17(iv)) for US only

Published:

- with international search report

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